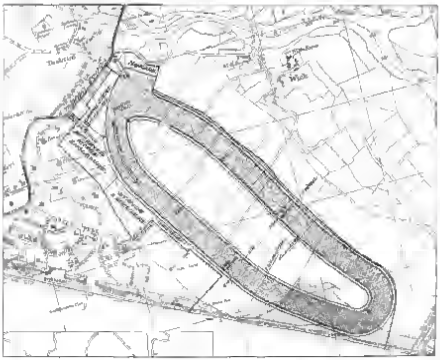
FLIGHT

First Aero Weekly in the World.

A Journal devoted to the Interests, Practice and Progress of Aerial Locomotion and Transport.

OFFICIAL ORGAN OF THE ROYAL AERO CLUB OF THE UNITED KINGDOM

No. 62. [illegible] Vol. II.] [illegible] [Registered at the G.P.O. as Newspaper] [Weekly Price 1d. Post Free, 1½d.]



BOURNEMOUTH INTERNATIONAL FLIGHT MEETING, JULY [illegible]. Plan of the World's grounds.

THE FLYING GROUND DIFFICULTY.

By R. F. MACFIE.

[illegible] the fact that many budding aviators are held up for want of a suitable ground to start on, perhaps my comments [illegible] for a ground [illegible] may [illegible] experts in [illegible] [illegible] a [illegible]

Before going further let us settle what constitutes a satisfactory flying [illegible] learn on, with a machine fitted with wheels. These remarks [illegible] apply to [illegible] which are [illegible] into the air from another [illegible] and [illegible] on a [illegible] field. To take the average man, we will suppose the aviator has a machine of his own construction which has never yet flown, and that he himself has no experience of actual flying, but proposes to learn to [illegible] We will also suppose [illegible] It [illegible] [illegible] have a fairly flat ground [illegible] [illegible] than the surface [illegible] and [illegible] [illegible] [illegible] very [illegible] flying [illegible] [illegible] [illegible] powerful [illegible] Delagrange. [illegible] and [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Now as to the [illegible] ground. I [illegible] the [illegible] of the [illegible] [illegible] of [illegible] [illegible] [illegible] to fly with [illegible] [illegible] E.N.V. [illegible] yards, and [illegible] [illegible] yards. Again, it [illegible] [illegible] a [illegible] flying [illegible] a [illegible] yards straight flying, you [illegible] a [illegible] three-quarters of a mile [illegible] the ground [illegible] three quarters of a mile [illegible] which will [illegible] to [illegible] the [illegible] E.N.V. [illegible] [illegible] [illegible] [illegible] [illegible]

Such a ground as the above is a very difficult thing to find in England in the winter [illegible] a summer [illegible] [illegible] an excellent practice ground, but in winter there are nearly always [illegible] such as the [illegible] Sands, near [illegible]

A common argument put forward by flying experts who have never flown is that if a man has enough [illegible] [illegible] he can fly [illegible] ground [illegible] for the [illegible], [illegible] and fly [illegible] in the way of [illegible], ditches, and [illegible] This method has been tried [illegible] [illegible] [illegible] [illegible] [illegible] flights of 100 yards [illegible] very different [illegible] companion [illegible]

The [illegible] [illegible] [illegible] the ground [illegible] There are [illegible] grounds [illegible] [illegible] [illegible] [illegible] a day [illegible] [illegible] The [illegible] [illegible] Sundays. The [illegible] [illegible] [illegible] [illegible] There are [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in England—[illegible] Office [illegible] [illegible] [illegible] enough [illegible] [illegible]

List of Grounds in France.

[illegible].—A [illegible] of Paris. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] the ground [illegible] [illegible] giving a [illegible]

[illegible].—[illegible] from Paris. [illegible] afterwards. Ground [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] machine [illegible] [illegible]

[illegible].—[illegible] Camp [illegible] [illegible] [illegible] [illegible] ground [illegible] [illegible]

case. Altitude and long-distance flying may not work, so the tenement is [illegible].

Fog.—Two grounds belonging to [illegible]. [illegible] Ridge [illegible]. Better [illegible] of machines are wanted. [illegible] ground and weather is [illegible].

Nunn.—[illegible] has been covered here, but it is a [illegible] and rough. Little wind.

Castle d'Hum, near [illegible]. A large space, [illegible] square, has been cleared of [illegible]. A [illegible] has been put round the ground, [illegible] [illegible] weeks ago [illegible] [illegible]. [illegible] to [illegible] the ground [illegible]. Cornish [illegible] free of charge, [illegible], and giving them every help.

Last of French Grounds.

Beauchamps.—[illegible] per season. [illegible] [illegible].

Wembley.—[illegible] [illegible].

Park Royal.—[illegible]

Mousehole Marsh. Long [illegible], permission from War Office. Difficulties [illegible].

Hendon. [illegible].

Wormwood Scrubs.—[illegible] This applies also to [illegible] grounds [illegible] the War Office [illegible] and the Jockey Club.

Fambridge, Essex. Late [illegible] Now abandoned as a flying [illegible]. [illegible] [illegible].

Large field opposite [illegible]. The [illegible].

Rochford, Essex. Several large [illegible] square, [illegible] meadow land, now [illegible].

Large Fields near Southend [illegible].

Marble Sands Essex.—[illegible] England [illegible].

Camber Sands near Rye, Sussex.—[illegible] [illegible] [illegible] [illegible].

The [illegible] Shellbeach [illegible] Club.

❀ ❀ ❀

THE PILCHER GLIDER.

Mr. [illegible] [illegible] have no reference [illegible] [illegible] history of [illegible]. Mr. Miller writes as follows:—

In your issue of [illegible] [illegible] [illegible].

[illegible] The Daily [illegible] [illegible] [illegible].

[illegible] Old Place Corner [illegible] [illegible] [illegible]. The scene photographed [illegible] [illegible].

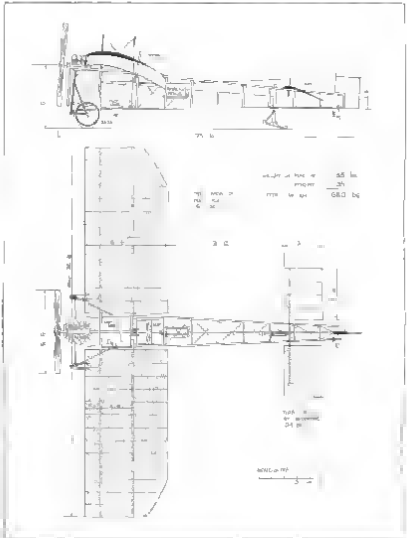
THE MACFIE BRITISH AEROPLANE.

The Frame.

Side view of the Macfie monoplane

The Macfie monoplane in flight

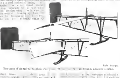
Macfie monoplane seen at least



The Martin Aeroplane.

[illegible] This is a good method of [illegible] Mr. Blackb[urn] [illegible]

[illegible] of the accompanying sketch [illegible]



Two views of the tail of the Blackburn monoplane. [illegible]

[illegible]

[illegible] chassis [illegible] of the Blackburn monoplane.

[illegible] Mr. Blackburn [illegible]

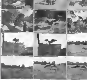
[illegible]

Sketch showing the mounting of the [illegible] of the Blackburn [mono]plane.

[illegible]

(To be continued.)

HOW A BIRD LEARNED TO FLY.



[illegible]

THE "G. AND J." BIPLANE

[illegible]

Progress and Prospects of the Gyroscope.

[illegible]

Municipal Encouragement in Austria.

[illegible]

A Large Hall Wanted.

[illegible]

AIRSHIPS IN PEACE AND WAR

FURTHER DETAILS OF THE BLÉRIOT CROSS-CHANNEL FLYER.

We have prepared the accompanying sketches primarily in order to answer certain points raised by a correspondent, F. W. Bradley, whose letter appears this week. There has been so much correspondence about the machine, however, that the following remarks relating to the details in question will doubtless have a wider interest. We have consequently thought proper to deal with them in this way.

One of the two sketches shows the wheel, representing a detail of the rear of the machine. The distance of this wheel has not previously been given. It resembles in general [illegible] detail to which [illegible] may be drawn in connection with the front portion of the wheel in the use of a piece of elastic for bringing the wheel back to the centre line. This wheel carries its shaft, which is pivoted to a vertical post that is braced substantially to the chassis frame. In addition to this pivotal [illegible] the forks are also hinged and mounted in such a manner that [illegible] afford a spring suspension. The spring is attached to the top of the vertical post to the point illustrated by the sketch. The object of the elastic is, of course, to keep the wheel in line ready for landing, but at the same time it does not interfere with the free steering [illegible] when the machine is running along the ground.

The other sketch shows in very complete detail the construction and arrangement of the tail of the Blériot cross-Channel flyer. It affords answers to all the questions raised by our correspondent. The tail is supported on a steel tube, A, by aluminium brackets, C, clamped to the main spars of the frame. The steel tube forming the main transverse member of the tail is braced by a further steel tube, B, that extends from the top of the main frame to the junction of the tail with the elevating tips.

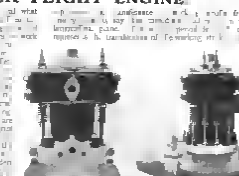
Further support for the tail is afforded by the diagonal struts, E, made of light steel tubes that pass from the trailing edge of the tail plane to vertical uprights on the main frame of the chassis. This latter attachment is so arranged as to afford an adjustment whereby the angle of incidence of the tail can be varied. The small portion of the tail plane between the elevating tips is a fixed surface.

The operation of the elevating tips, which are movable at the extremity of the central tail plane, is effected by means of the two transverse cables operated. The elevating tips are fixed to the spar [illegible] to the control lever, D, that [illegible] the movement of the operating lever under the pilot's control. The main [illegible] of the [illegible] on its bracket. The centre portion of the tail plane is not [illegible] in flight, but can be adjusted as already described.

The above illustration shows an interesting point of the Blériot monoplane in the presence of Mr. Claude Grahame-White's machine that is now being experimented with by Mr. R. W. A. Brewer.

FLIGHT

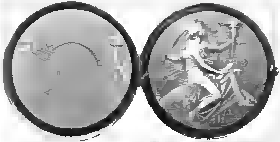
THE ASTER FLIGHT ENGINE



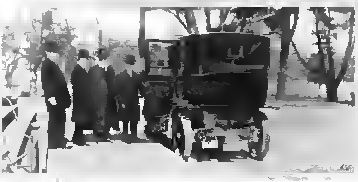
THE ASTER FLIGHT ENGINE. End and side views of the new engine, which has the appearance of a radial cylinder output, but in reality has four cylinders arranged obliquely to plane. The pistons are connected to a two-throw crankshaft.

View of the Aster Arc[illegible] The cylinders are arranged V-shaped, and not in line.

LANGLEY MEDAL PRESENTED TO WRIGHT BROS



THE FIRST LANGLEY MEDAL.—Presented [illegible]



The Wright Brothers receiving the Smithsonian Institution's Langley Medal. 1, Secretary Charles D. Walcott. 2 Mr. Wilbur Wright. 3, Mr. A. Graham Bell. 4, Mr. Orville Wright.

MY EARLY EXPERIMENTS.

By SIR HIRAM MAXIM.

[illegible]

❀ ❀ ❀ ❀

Henry Farman Building a Monoplane.

Having produced a biplane with which such extraordinary success has been attained, Mr. Henry Farman has determined [illegible] engaged [illegible] building a monoplane, and which [illegible] [illegible] he [illegible] been making [illegible]

ROYAL AERO CLUB OF THE UNITED KINGDOM.

OFFICIAL NOTICES TO MEMBERS.

Annual General Meeting.

The Annual General Meeting of the members of the Royal Aero Club of the United Kingdom will be held on Thursday, March [illegible], 1910, at [illegible], at 166, Piccadilly, London, W.

Committee.

[illegible]

The following members have been nominated:—

[illegible]	[illegible]
Major [illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
Vice-Admiral Sir Charles [illegible]	[illegible]
Col. [illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

[illegible]

Committee Attendances for the Past Year.

Name.	Attendances.	Name.	Attendances.
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

Committee Meeting.

A meeting of the Committee was held on Tuesday [illegible]

New Members.—[illegible]

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

Aero Exhibition at Olympia.

[illegible]

Long Distance [illegible]

[illegible]

Michelin Cup.

[illegible]

Photographs and Books.

[illegible]

Royal Aero Club and [illegible]

[illegible]

[illegible]

PROGRESS OF FLIGHT ABOUT THE COUNTRY

WRIGHT BROTHERS AND THEIR PATENTS.

MODEL COMPETITION AT GODALMING.

Launching a model. G. Cardwell, 1st prize. H. Pilh, 2nd prize. Judging the flights.

A MODEL AEROPLANE COMPETITION AT BELLEVUE, GODALMING.

AVIATION NEWS OF THE WEEK.

Flying at Eastchurch.

On [illegible] of last week the Hon. C. S. Rolls made a flight of a quarter of an hour's duration, traversing [illegible] Short-Wright machine. [illegible]

[illegible] Mr. Moore-Brabazon flew at Eastchurch [illegible]

Flying at Bradford.

A [illegible] of calm weather on [illegible] [illegible]

[illegible] at Bradford.

[illegible]

M. A. V. Roe Back at Brooklands.

[illegible] Brooklands [illegible]

Another Aeo Farman Pupil.

[illegible] of Farman machines [illegible]

[illegible] Farman [illegible]

Kolbe Flies in a Gale.

[illegible]

Rougier at Monte Carlo.

[illegible]

Dunne at Pau.

[illegible]

Capt. Engelhardt [illegible]

[illegible]

Lieut. Calderara Out Again.

[illegible]

Another view of Old Blackpool [illegible]

interesting spectacle was seen of an aeroplane flying over the old Roman aqueduct. After this flight Lieut. Calderara gave up his seat to Lieut. Savoia, who made his first [illegible] flight [illegible] minutes.

A Naval Biplane.

On the new biplane which has been designed and built by M.M. [illegible] and [illegible], and with which they will shortly be conducting trials at Le Mans, the propeller will be placed in front, where it will be driven by a [illegible] P.N.B. motor.

Ae.C.F. Doings.

It has recently been decided by the Ae.C.F. [illegible] they will recognise in France the pilots' certificates issued by the Kaiserlicher Aero Club of Germany as equal to those of the Aero Club of France.

[illegible] certificates have recently been granted to M. Dhéval and M. A. Chevran, while M. André Schelcher has been given a [illegible] certificate.

It [illegible] "[illegible]" [illegible] for [illegible] planes. A sum of [illegible] been placed at the disposal of the [illegible] of [illegible].

An Aero Club for Norway.

Norway at last has a national Aero Club, which has been formed in Christiania, [illegible] the well-known [illegible], as President and [illegible] W. [illegible] as Vice-President. Application has been made to the Fédération Aéronautique Internationale for recognition as representing Norway.

An Altitude Prize.

A [illegible] has been offered at Nice, [illegible] conditions, by M. [illegible] who is spending the winter on the Riviera. This Cup, which [illegible] a value of [illegible] frs., will be given to the first [illegible] who [illegible] beats, at Nice, the world's record for height in an aeroplane. [illegible] only [illegible] between [illegible] and March [illegible], and if the prize has not been won by January 1st, 1911, it will then lapse.

A Carnegie Prize.

From New York it is announced that Mr. Andrew [illegible] at the Carnegie Institute of Technology at Pittsburg, who [illegible] aeronautics [illegible].

AIRSHIP NEWS.

Personal Reminiscence from Madrid.

The garage which [illegible] of Aerial Navigation Company [illegible] 98 metres wide and 25 metres high. The [illegible] the passenger service during the coming [illegible]. The [illegible] daily [illegible] Madrid [illegible] largest [illegible] the Zeppelin ships [illegible] £25,000.

The New "Parsevals."

"Parseval V" [illegible] of the [illegible] and [illegible] "Parseval IV" has also been [illegible] new [illegible] signalling system from which good results are said to be [illegible] obtained.

Three other [illegible] at the Bitterfeld works. Nos. VI [illegible] which are destined for the [illegible] will soon be completed, while No. "VIII" is being [illegible] the Prussian Kriegsministerium.

"Zeppelin III" in Dry Dock.

In order that [illegible] of the [illegible] may be [illegible] "Zeppelin III" has been [illegible] to facilitate the work of [illegible].

An All-Steel Dirigible.

[illegible] Austrian officer Lieut. [illegible], is said to have patented a [illegible] by which he is able to [illegible] of [illegible] the [illegible] are arranged [illegible] by which the altitude of the [illegible] of the [illegible] have been [illegible] being built and tested.

The [illegible] Dirigible.

The [illegible] framework of the dirigible which is being built [illegible] by Professor Shoene, of [illegible] was [illegible] Zeppelin, except [illegible] in [illegible] length and [illegible] diameter and [illegible] be fitted with [illegible] driven by [illegible].

German Airship Manœuvres.

It has [illegible] that the [illegible] airship manœuvres with German [illegible] will take place [illegible] the [illegible] Zeppelins I [illegible] and Parseval II, and [illegible] manœuvres [illegible] Director of [illegible].

Mishap with "España."

[illegible] an attempt was made [illegible] to [illegible] the "España" which the Spanish Government [illegible] A [illegible] positions were made for an early start. [illegible] and the airship started off [illegible] M. [illegible] Capt. [illegible] Capt. [illegible] and [illegible] the [illegible] above [illegible] and the [illegible] feet [illegible] ascending to [illegible] and fearing that the [illegible] might be [illegible] to the [illegible] the manœuvre [illegible] at Bordeaux, [illegible] that [illegible] M. [illegible] to [illegible] The damage, however, was not serious and was repaired in a couple of days.

CORRESPONDENCE.

The name and address of the writer (not necessarily for publication) must in all cases accompany letters intended for insertion, or containing queries.

Correspondents asking questions relating to articles which they have read in FLIGHT, would much facilitate our work of reference by giving the number of the letter ...

[illegible]

THE BLÉRIOT FLYER.

[illegible]

AERONAUTICS FOR THE NAVY.

[illegible]

A BIT BLERIOT MODEL.

[illegible]

THE AEROPLANE AND THE DIRIGIBLE.

[illegible]

M. C. A. Bedell's working model.

[illegible] of possible [illegible] will be [illegible] the development of the [illegible] [illegible].

[illegible] A. W. [illegible]

[illegible] In the interesting article by Mr. [illegible] [illegible]

[illegible]

H. [illegible]

THE "MAYFLY."

[illegible]

[illegible] machine is only [illegible] [illegible]

[illegible] F. [illegible]

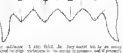
THE FERGUSON AEROPLANE.

[illegible] With reference to the [illegible] Mr. Harry G. Ferguson [illegible]

[illegible]

SERRATED CUTTING EDGE.

[illegible]



[illegible]

W. P. [illegible]

MISUNDERSTANDINGS AND MANOEUVRES

[illegible] the above article [illegible] the height of [illegible] to explain [illegible] a machine [illegible] a [illegible] [illegible] [illegible]

Index and Title Page for Vol. I

In spite of the fact that a very large edition of the index and title page [illegible] of FLIGHT was prepared it proved to be quite inadequate to meet the enormous demand, and [illegible] corresponding to the [illegible] a second large edition is now ready and copies are being [illegible]

"Flight" at Olympia.

[illegible] to the Olympia Exhibition, which opens [illegible] FLIGHT would [illegible] will be [illegible] of the stand number will be [illegible]

[illegible]

POINTS TO NOTE.

[illegible]

PUBLICATIONS RECEIVED.

[illegible]

Catalogue.

[illegible]

NEW COMPANIES REGISTERED.

Aviation Gearers, Ltd. [illegible]

Bristol Aeroplane Co., Ltd. [illegible]

Bristol & [illegible] Ltd. [illegible]

British and Colonial Aeroplane Co., Ltd. [illegible]

British and Colonial Aviation Co., Ltd. [illegible]

Galloway Co., Ltd. [illegible]

Huntingdon Aviation Gearers, Ltd. [illegible]

Lane's British Aeroplanes, Ltd. [illegible]

Motorplanes, Ltd. [illegible]

DIARY OF FORTHCOMING EVENTS.

British Events.

[illegible]

Foreign Events.

[illegible]

Aeronautical Patents Published.

Applied for in 1909.

Published March [illegible], 1910.

[illegible]

BACK NUMBERS OF "FLIGHT."

Some [illegible] are very scarce, and have been raised in price as follows:—

[illegible]

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12	[illegible]	12	[illegible]

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